Junxiu Tang

Interactive Data Group
State Key Lab of CAD&CG
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EDUCATION

Present Sept. 2019	**Ph.D. Candidate in Computer Science** Interactive Data Group, State Key Lab of CAD&CG Zhejiang University Supervisor: Prof. Yingcai Wu	*Hangzhou, China*
Jun. 2019 Sept. 2014	**B.Eng. in Digital Media Technology** College of Computer Science and Technology Zhejiang University	*Hangzhou, China*

RESEARCH & WORK EXPERIENCE

Jun. 2022 Feb. 2022	**Research Intern, Software Engineer** JD Intelligent Cities Research, Jing Dong Technology Worked on visual analytics for urban computing, especially on intelligent transportation and disease control. Supervised by Dr. Jie Bao and Prof. Yu Zheng.	*Beijing, China*
Dec. 2021 Sept. 2019	**Research Intern** IDEA Lab, Alibaba-Zhejiang University Joint Research Institute of Frontier Technology Supervised by Prof. Yingcai Wu. Coorperated with DAMO Academy and Cainiao.	*Hangzhou, China*
Dec. 2021 Sept. 2020	**Research Intern** Cainiao Smart Logistics, Alibaba Group Worked on visual analytics for smart logistics, especially on order processing monitoring and optimization.	*Hangzhou, China*
Sept. 2020 Nov. 2019	**Research Intern** Alibaba DAMO Academy for Discovery, Adventure, Momentum and Outlook, Alibaba Group Worked on techniques and theories for intelligent data video generation.	*Hangzhou, China*

PUBLICATIONS

Asterisk* indicates equal contribution.

A Visualization Approach for Monitoring Order Processing in E-Commerce Warehouse

Junxiu Tang, Yuhua Zhou, Tan Tang, Di Weng, Boyang Xie, Lingyun Yu, Huaqiang Zhang, Yingcai Wu

IEEE Transactions on Visualization and Computer Graphics. 2022. (Proceedings of VIS' 21) DOI: 10.1109/TVCG.2021.3114878.

Narrative Transitions in Data Videos

Junxiu Tang, Lingyun Yu, Tan Tang, Xinhuan Shu, Lu Ying, Yuhua Zhou, Peiran Ren, Yingcai Wu

IEEE Visualization Conference (VIS). Short Paper. 2020. (Proceedings of VIS' 20) DOI: 10.1109/VIS47514.2020.00037.

SmartShots: Enabling Automatic Generation of Videos with Data Visualizations Embedded

Tan Tang*, **Junxiu Tang***, Jiewen Lai, Lu Ying, Peiran Ren, Lingyun Yu, Yingcai Wu

ACM International Conference on Multimedia. Abstract. 2020. (Proceedings of MM' 20.) DOI: 10.1145/3394171.3414356.

SmartShots: An Optimization Approach for Generating Videos with Data Visualizations Embedded

Tan Tang, **Junxiu Tang**, Jiewen Lai, Lu Ying, Yingcai Wu, Lingyun Yu, Peiran Ren

ACM Transactions on Interactive Intelligent Systems. 2022. DOI: 10.1145/3484506.

Nebula: A Coordinating Grammar of Graphics

Ran Chen, Xinhuan Shu, Jiahui Chen, Di Weng, **Junxiu Tang**, Siwei Fu, Yingcai Wu

IEEE Transactions on Visualization and Computer Graphics. 2022. DOI: 10.1109/TVCG.2021.3076222.

What Makes a Data-GIF Understandable?

Xinhuan Shu, Aoyu Wu, **Junxiu Tang**, Benjamin Bach, Yingcai Wu, Huamin Qu

Explore Mindfulness without Deflection: A Data Art Based on the Books of Songs

Yifang Wang, Yang Wang, Yifan Cao, Huamin Qu, **Junxiu Tang**, Yingcai Wu

Examining Interaction Techniques in Data Visualization Authoring Tools from the Perspective of Goals and Human Cognition: A Survey

Sadia Rubab, **Junxiu Tang**, Yingcai Wu

Design Guidelines for Augmenting Short-form Videos using Animated Data Visualizations

Tan Tang, **Junxiu Tang**, Jiayi Hong, Lingyun Yu, Peiran Ren, Yingcai Wu

Toward the Better Modeling and Visualization of Uncertainty for Streaming Data

Tan Tang, Kaijuan Yuan, **Junxiu Tang**, Yingcai Wu

TEACHING

Winter 2022	*Teaching Assistant*, Event Sequence Visualization, Cross Media Visualization, ZJU *Teaching Assistant*, Event Sequence Visualization, Information Visualization, ZJU
Summer 2021	*Coordinator*, *Teaching Assistant*, International Visualization Summer School, ZJU
Winter 2020	*Coordinator*, *Teaching Assistant*, Cross Media Visualization, ZJU
Winter 2020	*Coordinator*, *Teaching Assistant*, Information Visualization, ZJU
Summer 2020 2019	*Teaching Assistant*, International Visualization Summer School, ZJU

REVIEWING

2022	IEEE VIS Conference, China Vis

CONFERENCE PRESENTATIONS

Oct. 2021	A Visualization Approach for Monitoring Order Processing in E-Commerce Warehouse IEEE VIS Conference, Virtual
Oct. 2020	Narrative Transitions in Data Videos IEEE VIS Conference, Virtual
Jul. 2019	Design Guidelines for Augmenting Short-form Videos using Animated Data Visualizations China Vis, Chengdu, China
Jul. 2018	Toward the Better Modeling and Visualization of Uncertainty for Streaming Data China Vis, Shanghai, China
	A Gear-storyline of Inception China Vis Art Exhibition, Shanghai, China

SKILLS

Programming	TypeScript, JavaScript, Python, C/C++
Web Devs	React.js, Vue.js, D3.js
Design Tools	Adobe Illustrator, Photoshop, Premiere, After Effects, InDesign, Axure, Unity, MAYA
Language	Chinese Mandarin (native), English (professional working proficiency)